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IMPERIAL MYCOLOGICAL INSTITUTE 13 JUNE 1940

ROME
VILLA UMBERTO I
1940

NOTE

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IN THE PRESS :—

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(FRENCH EDITION ONLY)

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ACTIVITY OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

The radio communiqués of the International Institute of Agriculture are transmitted between 3.15 and 3.25 p. m. on the following days: Monday, Italian; ***Tuesday,*** French; ***Wednesday,*** English; ***Thursday,*** German; ***Friday,*** Spanish; ***Saturday,*** Russian.

They are broadcast from Rome II (245.5 m.), Rome 2 RO 4 (25.4 m.) and Rome 2 RO 6 (19.6 m.).

The hour of broadcasts is Central European Time, which is one hour ahead of Greenwich Mean Time and 5 hours ahead of Eastern Standard Time in the United States.

The work of the International Institute of Agriculture is proceeding normally. Plans have been made which take account of the financial and staff resources of the Institute and which will ensure the execution of the Institute's programme. Some aspects of the latter are being given special emphasis. The Institute's Reviews, Bulletins, Yearbooks and monographs of special interest will be regularly published. Some information is given below on the meetings to the held at the Institute in the near future.

XVth General Assembly. — This Assembly will be opened on Monday, May 20 at 10 a. m. A large number of countries from all continents have announced that they will take part in it and have appointed their delegates. The Institute has already been assured of a number of votes exeeding the two-thirds of the total required by article 5 of the Convention of June 7, 1905. Further adhesions are being received and there is reason to believe that nearly all the Member States will be represented at the Assembly.

Special Committee of the Horticultural Section. — This committee of horticultural experts was set up for the purpose of advising the authorities of the Institute on the work of the Horticultural Section. This Committee is to meet at the Institute on May 18 and, if necessary, on the following day.

International Exhibition of Agricultural Films. — Information on this Exhibition, the first of its kind, was given in earlier numbers. The Institute has already received 65 films and others continue to arrive. These films come from the various Member Countries of the Institute and deal with agricultural subjects. Some of them will be shown in full or in part during the General Assembly.

PUBLICATIONS OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

JUST OUT:—

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XX + 96 pages, 8vo.

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This work contains the results of the most extensive and most detailed enquiry hitherto made in the field of agricultural statistics. It is an indispensable work of reference for all studies relating to the production, marketing and prices of agricultural products. The volume now in preparation will include data available up to May 1940.

IN THE PRESS:—

THE WORLD AGRICULTURAL SITUATION

About 400 pages, 8vo.

PRICE: **25 lire.**

The ninth in the series. The first eight volumes relate to the years 1929-30, 1930-31, 1931-32, 1932-33, 1933-34, 1934-35, 1935-36, 1936-37/1937-38.

CONTENTS: I. The general economic background — II. International economic relations — III. Agricultural production and the supply of agricultural products — IV. World trade in agricultural products — V. Agricultural prices and returns. — VI. Agricultural policies.

IN THE PRESS:—

ANNUAIRE INTERNATIONAL DE LEGISLATION AGRICOLE

XXIXth Year. About 1000 pages, 8vo.

PRICE: **80 lire** (CLOTH **90 lire**).

This systematic collection of agricultural laws is an indispensable reference book for the preparation of new laws and for all studies in agricultural legislation.

* * *

The principal laws and decrees affecting farming are published by the Institute in leaflet form in the *Collection de textes législatifs*. The subscription for the annual collection of 50 leaflets is 50 lire.

A new periodical publication on agricultural law.

The Legislation Section of the Institute will shortly publish a new periodical devoted to problems of agricultural law which will form a useful supplement to the *Annuaire international de Législation agricole*. It will contain articles by eminent jurists who are specialists in agricultural law illustrating the scope and content of agricultural legislation. There will also be permanent sections on agricultural jurisprudence, information on the activities in agricultural juridical fields (congresses, speeches, lectures, etc.), and on agricultural legislation, a bibliography giving summaries of the articles appearing in the principal law journals, and book reviews.

This new review will be published two or three times a year in two editions (English and French).

THE ANNUAL SUBSCRIPTION IS **45 lire** OR $ **2.35**.

TO BE PUBLISHED SHORTLY:—

BIBLIOGRAPHY OF TROPICAL AGRICULTURE, 1939

About 500 pages, 8vo.

PRICE: **15 lire.**

The eighth volume of the *Bibliography of Tropical Agriculture*, 1939 is in the press and will be published shortly.

In this Bibliography are noted all the important studies and publications on tropical agriculture for the year 1939. In every case the name of the author and title of the article are given followed by a concise summary of the subject treated.

As in the previous editions, the summaries are grouped according to the principal crops; articles on general questions are reviewed in the opening chapter of the Bibliography. With this system the reader can easily find the section in which he is interested, for example, cacao, coffee, etc.

The Bibliography of Tropical Agriculture is now of particular importance as the publication of many of the well-known scientific agricultural journals has been suspended owing to the present unsettled conditions.

IN THE PRESS:—

WORLD TRADE IN AGRICULTURAL PRODUCTS

About 1200 pages, 8vo.

PRICE: **60 lire.**

This volume is an analytical review of the revolutionary changes in world agricultural markets and the tremendous growth of government intervention during the last decade. It also shows the connection between commercial policy and the significant shifts that have occurred in world agricultural production since the beginning of the century. It presents for the first time in a single volume the rise of modern trade in farm products; the effects of the World War; the changes resulting from the world-wide depression; and a survey of the numerous governmental efforts to protect the farmers' markets in the main importing and exporting countries.

Though this volume runs to twelve hundred pages, it is actually a condensed analysis of a vast variety of statistics and acts of legislation, designed to provide an unbiased historical basis for officials of governments, students, and others who wish to grasp the changing significance of world trade for the farming populations. Numerous series of statistical data, which until now were scattered through many volumes, have been concentrated for easy comparison, and a new series on values provides a measure of the economic importance of each element of agricultural world trade and its regulation.

The principal products comprising the major part of agricultural world trade are discussed separately in Part I. This is necessary in order to present a world-wide picture of the evolution of trade as determined by the growth of new centres of consumption or shrinkage of demand, expansion and intensification of production, changes in yields, etc., and new regulation of channels of trade over the world.

The evolution of national trade policies is traced in a series of chapters in Part II, which, without excessive repetition, assembles the data regarding the agricultural trade of each of the principal countries, and groups of countries, of European civilization in the temperate zones. Here the facts regarding national efforts toward self-sufficiency in relation to imports and exports are presented from the standpoint of the needs of the individual countries or empires.

The chapters on the various countries have been completed after examination and criticism by national experts in many cases, and with the assistance of the staff of the Institute.

Covering the new era initiated by the World War and the subsequent developments in economic policy, this volume condenses the data on world trade on agricultural products. It utilizes the experience of the International Institute of Agriculture, the only international fact-finding agency which has been supported entirely by the principal governments of the world working together on agricultural problems since the beginning of the century.

For Officials, Universities, Colleges, Agricultural and Commercial Institutions, this volume will be of particular use because of its scope and wealth of detail as well as for the international comparisons, many which are presented for the first time. It will be a useful handbook for students of contemporary economic history and for general students of agriculture and commerce.

INTERNATIONAL BULLETIN
OF PLANT PROTECTION

1940 No. 5

DISCOVERIES AND CURRENT EVENTS *

ITALIAN EAST AFRICA.

Movements of the African Migratory Locust †

From June till the end of December, 1939, the desert locust (*Schistocerca gregaria*) has not been reported anywhere in Italian East Africa.

The African migratory locust (*Locusta migratoria migratorioides*) has, on the other hand, been reported frequently and these reports may be summarized month by month as follows:—

In June there were considerable invasions in Somaliland in the neighbourhood of Callafo; in Harar between Dire Daua and Harar; in Amara near Debarech and Metemma; and in Eritrea between Adi Ugri, Adua and Axum. The predominating direction of the flights observed was from west to east, the locusts leaving eggs in the Alto Ogaden (Gou-Gou), at Errer, in Arussi and in the Residency of Metemma (Amara).

The invasions continued to be of importance in July except in Somaliland where they were limited to the Darror Valley in Migiurtina. Numerous and extensive flights were seen in the district of the Galla lakes, in Uollo Jeggiù and particularly in the quadrilateral Decamerè, Adigrat, Adua, Adi Ugri in Eritrea where locusts were reported very frequently in the eastern and western low-lying plains, especially during the second half of the month. From the 10th parallel southwards, the prevailing direction of the flights was from east to west whereas northwards it was almost exclusively west to east. In the zone of Tessenei, the greater part of flights came from the Sudan. Eggs were deposited at Barentù and Coatit in Eritrea and in the neighbourhood of Lake Ruspoli (Ciamò) in Galla and Sidama. Hatching was reported from Gondar, Metemma, Socotà and Olettà.

In the month of August, the invasion had a tendency to diminish in intensity, in fact, no reports were received for Somaliland, the Alto Ogaden and for the territories of Borana and Giam Giam and even for Harar territory they were but few and coming only from Arussi and the Dire Daua zone. In Galla and Sidama, serious invasions were reported throughout the territory of the Galla

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the Inspectorate of Agriculture, Government General of Italian East Africa, Addis Abeba.

lakes; sporadic flights in the neighbourhood of Addis Abeba and Moggio in Scioa, and in Eritrea in the zone between Adi Ugri, Adua, Axum, Senafè and Alomatà, while in the western low-lying plain, on the other hand, the number of flights was markedly decreased. Egg-laying occurred in the neighbourhood of Dire Daua at Burgi, Asosa and between Agordat and Adua and hatching took place in the Alto Didessa, the various flights took different directions.

In the month of September, the invasion was still further diminished both in intensity and number; some flights were seen between Adua and Alomatà in Eritrea going towards Lake Tana in Amara, in the Beni Sciangul and in the Lake Margherita zone in Sidamo. Egg-laying took place in the neighbourhood of Adua, in Middle Tacazzè and in western Arussi. No definite direction appeared to be taken.

In October, the number of flights again decreased except in the Galla lakes area. Eggs were deposited in the environs of Gore, by the Giamma River near Ficcè and at Adi Arcai. Hatching took place at Enticciò, Mai-Chenetal, Selaclacà, Lake Haik, Uorro Ailù and Bocoggi.

In November, relatively frequent reports were only received from Somaliland, Upper Uebi Scebeli, Giuba and Galla Sidamo rivers, west of the lakes. In the other territories of Italian East Africa, flying having practically finished, hatching began chiefly in Harar (Arussi Giggiga), in Amara (Uorro Ailù), in Eritrea (Enda Sellassiè). Egg-laying occurred north of Baidoa and at Callafo (Somaliland), in western Arussi and in the Uccialli plain (Dessiè). The few flights seen practically all followed a north to south direction.

Little to report in December; chiefly in the upper basin of the Giuba, Uebi Scebeli and the centre valley of the Blue Nile; numerous hatchings, however, near Lugh, Afmedò, Baidoa and Callafo in Somaliland; in Arussi, and on the border of British Somaliland and in Harar.

Damage. With a few exceptions, generally of little importance. Only fairly serious in Amara especially in the Gondar territory, where wheat and barley were attacked, in Derrà (Goggiam), Dembeà, Metemma, where the durra crop was seriously damaged, in Ualdia, Socotà, Quorà and Batiè; in Eritrea at Addi Caieh, Adua, Upper, Mareb, Quoram and Alomatà; in Arussi (Harar); in Scioa at Olettà, Moggio and Biscioftù; in the lake zone and Beni Sciangul area in Galla Sidamo; in the Helai region between Oddur, Baracaba and Baidoa in Somaliland.

Control measures. Divisions were established for locust control, efforts being directed chiefly towards the destruction of hoppers and eggs by mechanical and chemical means.

The entomologist of the Experiment Centre is also carrying out investigations in the coastal zone of the Red Sea and in the western low-lying plain of Eritrea with a view to ascertaining eventual outbreak centres.

Considering the extensive area of the territory and the sparse population and the extent of the invasion, the results obtained may be taken as satisfactory.

ARGENTINE REPUBLIC.

Coryneum carpophilum on Fruit Trees *

Miss Clotilde Jauch, Agricultural Engineer in charge of the José C. Paz Phytopathological Laboratory, has just completed an investigation on a disease of stone fruit trees that is commonly called in the country 'viruela de los frutales de carozo'.

She has studied the symptoms in nature and under experimental conditions using pure cultures on peach, apricot, almond, plum, and cherry trees and has determined the damage caused by this disease according to the species of tree attacked as well as the geographic distribution in areas with quite different climates: dry (Mendoza and Río Negro); humid (Buenos Aires, Entre Ríos, Santa Fé and the islands of the Paraná Delta). With regard to the morphological characteristics of the parasite, she has proved that the causal agent belongs to the genus *Coryneum* and on the advice of the writers who are engaged with work on the same fungus she has proposed the name *Coryneum carpophilum* (Lév.) nov. comb. [syn. *Clasterosporium carpophilum* (Lév.) Adesh.]

AUSTRALIA.

Notes on Plant Diseases Recorded in New South Wales during the Year ending June 30, 1839 †

Cereals and Field crops.

Wheat yields were affected more by the incidence of dry weather conditions than by disease. Take-all (*Ophiobolus graminis*) was conspicuous in some crops. Bunt (*Tilletia tritici*) caused some loss in crops grown from untreated or imperfectly dusted seed. Loose smut (*Ustilago tritici*) and leaf spot (*Septoria tritici*) caused unusual damage in some localities. Ergot (*Claviceps paspali*) was again noticeable throughout coastal areas of paspalum. American maize smut (*Ustilago zeae*) was recorded from additional areas in an inland maize area and further action was taken with a view to restricting spread of the disease. Slight losses only were recorded in sugar cane amounting to less than one per cent. of production. Fiji disease (virus), gumming (*Bacterium vasculorum*) and mosaic (virus) were recorded in some areas. Yellow dwarf (virus) of tobacco assumed importance in some areas in which over 80 per cent. infections were

* Communication from the official correspondent of the Institute, Mr. Juan B. Marchionatto, Agricultural Engineer, Director of the 'Sanidad Vegetal', Ministry of Agriculture, Buenos Aires, Argentine Republic.

† Communication from the official correspondent of the Institute, Dr. R. J. Noble, Chief Biologist, Department of Agriculture, Sydney, New South Wales, Australia.

recorded. Downy mildew (*Peronospora tabacina*) of tobacco, although readily controlled by the benzol vapour method in seedbeds, caused some loss during later growth of the crop. Anthracnose (*Colletotrichum lindemuthianum*) of beans caused loss in susceptible varieties. Halo blight (*Bacterium medicaginis* var. *phaseolicola*) was the most important of the bacterial diseases of beans although there were but few instances of severe infection. Sclerotinia rot (*Sclerotinia libertiana*) affected many coastal crops of beans during moist weather in the early spring. A still further serious attack was recorded in the following autumn and early winter. Sclerotium rot (*Sclerotium rolfsii*) was also of serious importance on beans and other vegetable crops in metropolitan and coastal areas during the early summer. Cercospora leaf blight (*Cercospora carotae*) was reported on carrots for the first time. Macrosporium blight (*Macrosporium carotae*) of carrots was more widespread than usual.

Black rot (*Bacterium campestre*) was the most serious disease of crucifers and caused considerable losses in cauliflowers. Ring spot (*Mycosphaerella brassicicola*) was widespread in its occurrence on cabbages. Spotted wilt (virus) caused loss in lettuce crops and in one area severe yellowing, suggestive of magnesium deficiency, was corrected by the use of dolomite. Defective germination in peas was closely associated with the use of poor quality seed, effective control being obtained by the use of fungicidal dust treatment of the seed. Early blight (*Alternaria solani*) caused unusual loss in potatoes in tableland areas while coastal crops suffered from an outbreak of late blight (*Phytophthora infestans*). Leaf roll was the most commonly observed virus disease affecting potatoes, although spindle tuber was somewhat more prevalent than usual. Leaf mildew (*Cladosporium fulvum*) was again widespread and serious in glasshouse grown tomato crops although effectively controlled in many cases by the adoption of suitable spray programmes. Bacterial canker (*Aplanobacter michiganense*) caused exceptionally heavy losses in many glasshouse tomato crops and was even more severe in its effects on field crops of tomatoes. Other tomato diseases of less importance were Fusarium wilt (*Fusarium lycopersici*), bacterial wilt (*Bacterium solanacearum*), spotted wilt (virus) and big bud (virus). Anthracnose (*Colletotrichum phomoides*) of tomatoes was recorded from an inland irrigation area.

Fruit crops.

Black spot (*Phoma citricarpa*) caused very serious losses in unsprayed Valencia orange crops in coastal areas. Brown spot (undet.) was less serious in mandarins as a result of relatively dry weather in the spring and summer, Autumn rains, however, favoured development of twig lesions. A severe epidemic of brown rot (*Phytophthora palmivora* ?) caused damage to nursery citrus trees and internal decline was of importance in lemons. Dry seasonal conditions checked development of black spot (*Venturia inaequalis*) in apples. *Sclerotium rolfsii* was responsible for considerable damage to 4 year old apple trees in one area. An unusual blossom and twig blight in pears was recorded from a number of areas and appeared to be associated with boron deficiency. Brown rot

(*Sclerotinia fructicola*), freckle (*Cladosporium carpophilum*) and rust (*Puccinia pruni-spinosae*) caused some losses in early varieties of stone fruits but subsequent dry weather conditions checked development of these diseases in later varieties. Internal browning (non-parasitic) was not recorded in canning varieties in inland irrigation areas as this year cool showery weather prevailed instead of the high temperatures usually experienced during the last few days of ripening. Bunchy top (virus), although still a menace in banana production was maintained at a low level of incidence through stringent application of eradication measures. Leaf spot (*Cercospora musae*) of bananas was less in evidence during the early summer but later rainy periods led to severe development of the disease and defoliation of plants in the winter. Yellow leaf spot (*Cordana musae*) is now widespread and is the main leaf spot disease of the cooler section of the banana areas. Passion fruit woodiness (virus) continues to be a limiting factor in passion fruit production. Crinkle (virus) is the most important cause of debility and low level of production in strawberries.

Miscellaneous plants.

Nurserymen encountered serious losses from yellows (virus) in anemones and ranunculus. Sclerotinia rot (*Sclerotinia libertiana*) affected many ornamentals and resulted in a most unusual development of disease in Bathurst burr (*Xanthium spinosum*) in one area. Spotting of marigold (Tagetes) was caused by *Alternaria* sp. Anthracnose (*Colletotrichum antirrhini*) caused severe losses in unsprayed areas of snapdragons (*Antirrrhinum*). Scab (*Sphaceloma violae*) caused reduction in yield of violets grown for commercial purposes.

CHANNEL ISLANDS.

Outbreak of Colorado Beetle in Jersey *

A small outbreak of Colorado beetle (*Leptinotarsa decemlineata*) was discovered in Jersey on October 3rd 1939. Inspection of the whole of the Island has been carried out and no further outbreaks have been found.

The beetles found (43) were all adults and were feeding on volunteer (rogue) potato plants growing among a crop of mangolds. The infested area covers about 1/45 acre.

The methods agreed upon by the International Committee for the Mutual Study of the Control of Colorado Beetle were carried ou at once and I hope we shall be fortunate enough to completely eradicate the pest.

* Communication from Dr. Thomas Small, Ph. D., M. Sc., A. R. C. S., Mycologist, Experimental Station, Howard Davis Farm, Trinity, Jersey, C. I., transmitted to the Institute by Professor R. Maynè, Secretary General of the International Committee for the Mutual Study of the Control of Colorado Beetle, Boitsfort, Belgium.

SOUTHERN RHODESIA.

Locust Invasion, 1932-1940 *

Monthly Report No. 86. January, 1940.

Winged swarms of the red locust (*Nomadacris septemfasciata*, Serv.) have been reported in various districts during January, and egg deposition has continued in the localities indicated in last month's report.

Egg deposits are also reported in the farming area north of Gatooma and are probably present in much of the country to the west of the railway line between Gatooma and Que Que.

Hoppers hatched out during the month in the following districts, namely, Darwin, Mtoko, Charter, Gutu and Bikita, the first appearance of hoppers having been observed on the 5th of the month. Some hatchings have occurred in the farming area of the Charter district.

Considerable damage, especially to native crops, has occurred in various districts, and at least one European area has sustained a destructive visitation by winged swarms, namely, the Umboe Valley, Lomagundi.

Supplies of poison have been provided in all districts concerned and a campaign against the hoppers is already in progress.

Vast numbers of storks (*Abdimia*) have been observed attacking and destroying the winged swarms in the Gwelo district.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Germany. — With a view to preventing the spread of the fungus (*Adelopus*) which attacks the needles of the Douglas fir [*Pseudotsuga douglasii*] a Circular of October 3, 1939 advises restricted cultivation of this tree in order to avoid the eventual destruction of the species by the aforesaid fungus. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Februar 1940, Bd. XII, Nr. I, S. 2-3).

*** In a Circular of October 3, 1939, the Chief of the Forestry Administration gives some information on the above-mentioned disease of the Douglas fir.

This disease which is particularly serious in southern Germany, has not yet been observed in the northern part of the country. Therefore, on no account should seeds and saplings of the Douglas fir from southern Germany be used. The Nuserymen's Association of Germany has advised its members to suspend cultivation of the Douglas fir and not to send any saplings of southern origin to northern Germany. (*Ibid.*, S. 3-4).

* Communication from the official correspondent of the Institute, Mr. RUPERT W. JACK, F.E.S., Chief Entomologist, Agricultural Laboratory, Department of Agriculture, Salisbury, Southern Rhodesia

*** By Notification of November 8, 1939, modifying the Decree of February 24, 1939 [see this *Bulletin*, 1940, No. 1, pp. 7-8] indicating the measures to be taken in the control of the Colorado beetle [*Leptinotarsa decemplineata*], the Minister of Agriculture declares that consignments of plants or parts of plants from the Sudeten Territory, the import of which is authorized according to paragraph 14, sub-paragraph 3, of the said Decree, may be sent to Bohemia and Moravia without a compulsory certificate of condition and origin. (*Ibid.*, S. 17).

*** A Decree of November 21, 1939, lays down the measures to be taken for the control of the San José scale [*Aspidiotus perniciosus*] in Austria.

In order to prevent the introduction of this scale insect, nurseries for horticultural plants are brought under official control which must take place at least once a year during the period June 15 to October 31. The cultivation of young forest trees and vines is exempted from these regulations.

Nurserymen will not be able to offer plants or parts of plants for sale except after disinfection as laid down by the Minister of Agriculture.

Nurserymen and traders in garden products will have to keep books where facts concerning the origin of their products, their sale and dispatch are to be entered daily. (*Ibid.*, S. 9-10).

*** By a Circular of December 14, 1939, relative to the use of phosphuretted hydrogen in the control of the corn weevil [*Calandra granaria*], the conditions laid down by the Circular of September 2, 1936 [see this *Bulletin*, 1937, No. 1, p. 3] to which persons requiring authorization to use this treatment must comply, are slightly modified facilitating the granting of the necessary certificate. (*Ibid.*, S. 4-5).

*** By Ordinance of December 18, 1939 by the deputy of the Minister of Agriculture dealing with questions referring to seeds, the regulations relative to trade in seed potatoes [see this *Bulletin*, 1939, No. 5, pp. 110-111] have been slightly modified.

The diameter of the potatoes should not exceed 8 cm (formerly 7 cm.) for the round forms, and 9 cm. (formerly 8 cm.) for the oblong types given in the list of potato varieties published each year by the official Service of the Corporation of Agriculture. (*Ibid.*, S. 2).

*** A Notification of December 20, 1939 states that the duties formerly discharged by the Central Station of Plant Protection at Dresden and by the Horticultural Station at Pillnitz are now entrusted to the Plant Protection Service of the Corporation of Agriculture. The Services for plant protection in general and for work on horticultural and fruit crops are established at Dresden, Stübelallee 2, and at Pillnitz, respectively,

The Central Station for the protection of forest species attached to the Higher School of Forestry at Tharandt continues to function as before. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Januar 1940, 20. Jahrg, Nr. I, S. 7).

Argentine Republic. — Decree No. 54.521 of February 3, 1940 establishes that the 'Fabrica de Insecticidas y Fungicidas' directed by the Ministry of Agriculture and which will be now known as the 'Fábrica de Productos Químicos del Ministerio de Agricultura de la Nación' will function under the technical and administrative supervision and control of a Commission composed of the Directors of the 'Defensa Agrícola', 'Sanidad Vegetal' and 'Agricultura y Ganadería'.

This Commission will decide the annual working plan of the manufactory and its mode of operation. (*Boletín Oficial de la República Argentina*, Buenos Aires, 20 de febrero de 1940, año XLVIII, núm. 13.662, pág. 1731).

United States of America. — The third revision of the regulations supplemental to Notice of Quarantine No. 64 on account of the Mexican fruit fly (*Anastrepha ludens*), approved on October 10, 1939 and effective on October 16, 1939, adds the counties of Dimmit, La Salle, and Webb, in Texas, to the regulated area because of the discovery of infestation.

The interstate movement of citrus fruits, except lemons [*Citrus limonia*] and sour limes [*C. aurantifolia*], from the regulated area is submitted to certain restrictions. The movement of non-citrus fruits is prohibited. (*B. E. P. Q. — Q. 64*, [Washington, D. C.], 1939, 5 pp.).

*** The recent finding of pink cotton bollworm [*Pectinophora* (*Platyedra*) *gossypiella*] infestations in the vicinity of San Angelo, Texas, and at points in the surrounding area, again necessitates an extension of the regulated area. Under the Amendment No. 3 to the revised regulations supplemental to Notice of Quarantine No. 52, approved on November 15, 1939, and effective on November 20, 1939, there is added the entire Texas counties of Concho, Irion, Mitchell, Sterling and Tom Green, and that part of Coke County lying southwest of, and including, the right-of-way of Highway No. 87. (*B. E. P. Q. — Q. 52*, [Washington, D. C.], 1939, 3 pp.).

France. — A Ministerial Decree of December 27, 1939 fixes the distribution of importers and exporters of vegetable products on the control lists of the Phytopathological Service throughout the six agricultural regions of the country. (*Bulletin de l'Office de Renseignements agricoles*, Paris, 1er fevrier 1940, année 1940, nº 23, p. 56-57).

Italy. — By Ministerial Decree of February 10, 1940, control of the European corn borer (*Pyrausta nubilalis*) and the maize stalk borer (*Sesamia cretica*) is made compulsory in all provinces of the Kingdom.

Owners or occupiers of maize fields should take the necessary steps so that by April 30 of each year at the latest, all maize stalks have been utilized as stable-litter and then transported to the manure ditch, or else used as fuel or as cattle-feed or in any other manner which ensures the destruction of the caterpillars of

the two above mentioned parasites. This rule also applies to stalks already collected in heaps and to those still in the ground.

The stalks should be uprooted or cut either at or below ground level in such a way that the stumps do not show. Only in exceptional cases, and when authorized by the competent district phytopathological Observatory, can the stalks be dug in by deep ploughing.

Any maize stalks which, after April 30 of each year have not been consumed or employed in any of the ways mentioned above, will be burnt, if already collected in heaps, or cut either at or below ground level and then heaped up and burnt, at the expense of the contraveners who will also be punished according to the provisions of the law in force. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*. Roma, 1° marzo 1940, anno XII, n. 7, pp. 281-283).

*** The Rice-growing Experiment Station of Vercelli, which has carried out investigations for some considerable time on the problem of the disinfection and storage of cereals by physical methods, has obtained practical and satisfactory results with the use of infra-red rays.

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In the part which has just appeared the descriptions of the species of the family Aphididae are continued and concluded. This family, of great importance economically, is followed by the Coccidae and finally by the principal species of the order Anoplura.
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NOTES

Seventh International Botanical Congress. — The Organizing Committee of the Seventh International Botanical Congress, which was to be held in Stockholm 1940, has decided to postpone all preparations for the Congress until further notice. This means that there will be no Congress during 1940.

Thirteenth International Zoological Congress. — This Congress which was to have taken place at Paris in June 1940 has been postponed until further notice.

Prof. UGO PAPI, *Segretario generale dell'Istituto, Direttore responsabile.*

PRINTING OFFICE CARLO COLOMBO — ROME, MAY 15, 1940.

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